

I. Amendments to the Claims

This listing of claims replaces without prejudice all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) ~~In combination with a prelube metalworking fluid, the improvement~~ A composition, comprising: the addition thereto of

at least one metalworking fluid;

at least one antioxidant selected from the group consisting of alkylated diphenyl amines, N-alkylated phenylenediamines, alkylated monophenols, alkylated hydroquinones, hydroxylated thiodiphenyl ethers, alkylidenebis phenols, benzyl compounds, acylaminophenols, and esters and amides of hindered phenol-substituted alkanoic acids; and

at least one biocide that is a triazine selected from the group consisting of triazines, phenols, morpholines, formaldehyde releasers, azoniatricyclodecanes, omadines, and oxazolidines and wherein the at least one antioxidant and the at least one biocide are present in amounts sufficient to reduce oxidative and biological degradation.

2. (Currently Amended) The composition ~~combination~~ of claim 1 wherein the antioxidant is selected from the group consisting of alkylated diphenyl amines and N-alkylated phenylenediamines.

3. (Currently Amended) The composition ~~combination~~ of claim 2 wherein the antioxidant is selected from the group consisting of diphenylamine, dialkylated diphenylamine, trialkylated diphenylamine, or mixtures thereof, 3-hydroxydiphenylamine, 4-hydroxydiphenylamine, N-phenyl-1,2-phenylenediamine, N-phenyl-1,4-phenylenediamine, mono- and/or dibutyldiphenylamine, mono- and/or dioctyldiphenylamine, mono- and/or dinonyldiphenylamine, phenyl- α -naphthylamine, phenyl- β -naphthylamine, di-heptyldiphenylamine, mono- and/or di-(α -methylstyryl)diphenylamine, mono- and/or di-styryldiphenylamine, N,N'-diisopropyl-p-

phenylenediamine, N,N'-bis(1,4-dimethylpentyl)-p-phenylenediamine, N,N'-bis(1-ethyl-3-methylpentyl)-p-phenylenediamine, N,N'-bis(1-methylheptyl)-p-phenylenediamine, N,N'-diphenyl-p-phenylenediamine, N,N'-di-(naphthyl-2)-p-phenylenediamine, N-isopropyl-N'-phenyl-p-phenylenediamine, N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine, N-(1-methylpentyl)-N'-phenyl-p-phenylenediamine, N-cyclohexyl-N'-phenyl-p-phenylenediamine, 4-(p-toluenesulfonamido)diphenylamine, 4-isopropoxydiphenylamine, tert-octylated N-phenyl-1-naphthylamino, and mixtures of mono- and dialkylated t-butyl-t-octyldiphenylamines.

4. (Currently Amended) The composition ~~combination~~ of claim 1 wherein the antioxidant is selected from the group consisting of butylated (45%) octylated (19%) diphenylamine, octylated phenyl- α -naphthylamine, mono-, di-, and tri-nonylated diphenylamine, 3,5-di-t-butyl-4-hydroxy-hydrocinnamic acid C₇-C₉ branched alkyl ester, and butylated (30%) octylated (24%) diphenylamine.

5. (Currently Amended) The composition ~~combination~~ of claim 4 wherein the antioxidant is butylated (30%) octylated (24%) diphenylamine.

6-7. (Canceled)

8. (Currently Amended) The composition ~~combination~~ of claim 1 wherein the antioxidant is selected from the group consisting of thiodiethylene-bis(3,5-di-t-butyl-4-hydroxyhydrocinnamate and 2,6-di-t-butyl hydroxytoluene.

9. (Canceled)

10. (Currently Amended) The composition ~~combination~~ of claim 1 wherein the biocide is selected from the group consisting of 1,3,5-tris(2-hydroxyethyl)-S-triazine, hexahydro-1,3,5-tris(2-hydroxyethyl)-S-triazine, hexahydro-1,3,5-triethyl-S-triazine, hexahydro-1,3,5-tris(2-hydroxyethyl)-S-triazine iodine complex, and 1-(3-chloroallyl)-3,5,7-triaza-

1- azoniaadamantane chloride).

11. (Currently Amended) The composition combination of claim 10 wherein the biocide is 1,3,5-tris(hydroxyethyl)-s-triazine.

12. (Currently Amended) A method for reducing the oxidative and biological degradation of a prelube metalworking fluid comprising adding thereto at least one antioxidant selected from the group consisting of alkylated diphenyl amines, N-alkylated phenylenediamines, alkylated monophenols, alkylated hydroquinones, hydroxylated thiodiphenyl ethers, alkylidenebis phenols, benzyl compounds, acylaminophenols, and esters and amides of hindered phenol-substituted alkanolic acids and at least one biocide that is a triazine selected from the group consisting of triazines, phenols, morpholines, formaldehyde releasers, azoniatricyclodecanes, omadines, and oxazolidines and wherein the at least one antioxidant and the at least one biocide are present in amounts sufficient to reduce oxidative and biological degradation.

13. (Original) The method of claim 12 wherein the antioxidant is selected from the group consisting of alkylated diphenyl amines and N-alkylated phenylenediamines.

14. (Original) The method of claim 13 wherein the antioxidant is selected from the group consisting of diphenylamine, dialkylated diphenylamine, trialkylated diphenylamine, or mixtures thereof, 3-hydroxydiphenylamine, 4-hydroxydiphenylamine, N-phenyl-1,2-phenylenediamine, N-phenyl-1,4-phenylenediamine, mono- and/or di-butyl-diphenylamine, mono- and/or di-octyl-diphenylamine, mono- and/or di-nonyl-diphenylamine, phenyl- α -naphthylamine, phenyl- β -naphthylamine, di-heptyl-diphenylamine, mono- and/or di-(α -methylstyryl)diphenylamine, mono- and/or di-styryl-diphenylamine, N,N'-diisopropyl-p-phenylenediamine, N,N'-bis(1,4-dimethylpentyl)-p-phenylenediamine, N,N'-bis(1-ethyl-3-methylpentyl)-p-phenylenediamine, N,N'-bis(1-methylheptyl)-p-phenylenediamine, N,N'-diphenyl-p-phenylenediamine, N,N'-di-(naphthyl-2)-p-phenylenediamine, N-isopropyl-N'-phenyl-p-

phenylenediamine, N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine, N-(1-methylpentyl)-N'-phenyl-p-phenylenediamine, N-cyclohexyl-N'-phenyl-p-phenylenediamine, 4-p-toluenesulfonamido)diphenylamine, 4-isopropoxydiphenylamine, tert-octylated N-phenyl-1-naphthylamino, and mixtures of mono- and dialkylated t-butyl-t-octyldiphenylamines.

15. (Original) The method of claim 12 wherein the antioxidant is selected from the group consisting of butylated (45%) octylated (19%) diphenylamine, octylated phenyl- α -naphthylamine, mono-, di-, and tri-nonylated diphenylamine, 3,5-di-t-butyl-4-hydroxyhydrocinnamic acid C₇-C₉ branched alkyl ester, and butylated (30%) octylated (24%) diphenylamine.

16. (Original) The method of claim 15 wherein the antioxidant is butylated (30%) octylated (24%) diphenylamine.

17-18. (Canceled)

19. (Previously Presented) The method of claim 12 wherein the antioxidant is selected from the group consisting of thiodiethylene-bis(3,5-di-t-butyl-4-hydroxyhydrocinnamate and 2,6-di-t-butyl hydroxytoluene.

20. (Canceled)

21. (Previously Presented) The method of claim 12 wherein the biocide is selected from the group consisting of 1,3,5-tris(2-hydroxyethyl)-S-triazine, hexahydro-1,3,5-tris(2-hydroxyethyl)-S-triazine, hexahydro-1,3,5-triethyl-S-triazine, hexahydro-1,3,5-tris(2-hydroxyethyl)-S-triazine iodine complex, and 1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride).

22. (Original) The method of claim 21 wherein the biocide is 1,3,5-tris(hydroxyethyl)-s-

triazine.

23. (Currently Amended) A method for reducing the oxidative and biological degradation of a ~~prelubricant~~ metalworking fluid comprising adding thereto, in amounts sufficient to reduce oxidative and biological degradation, at least one antioxidant selected from the group consisting of butylated (45%) octylated (19%) diphenylamine, octylated phenyl- α -naphthylamine, mono-, di-, and tri-nonylated diphenylamine, 3,5-di-t-butyl-4-hydroxy-hydrocinnamic acid C₇-C₉ branched alkyl ester, butylated (30%) octylated (24%) diphenylamine, thiodiethylene-bis(3,5-di-t-butyl-4-hydroxyhydrocinnamate, and 2,6-di-t-butyl hydroxytoluene and at least one biocide selected from the group consisting of 1,3,5-tris(2-hydroxyethyl)-S-triazine, hexahydro-1,3,5-tris(2-hydroxyethyl)-S-triazine, hexahydro-1,3,5-triethyl-S-triazine, hexahydro-1,3,5-tris(2-hydroxyethyl)-S-triazine iodine complex, and 1-(3-chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride).

24. (Previously Presented) The method of claim 23 wherein the biocide is 1,3,5-tris(2-hydroxyethyl)-S-triazine.

25. (Previously Presented) The method of claim 23 wherein the antioxidant is selected from the group consisting of butylated (45%) octylated (19%) diphenylamine, octylated phenyl- α -naphthylamine, mono-, di-, and tri-nonylated diphenylamine, 3,5-di-t-butyl-4-hydroxy-hydrocinnamic acid C₇-C₉ branched alkyl ester, and butylated (30%) octylated (24%) diphenylamine.

26. (Previously Presented) The method of claim 25 wherein the antioxidant is butylated (30%) octylated (24%) diphenylamine.

27. (Previously Presented) The method of claim 24 wherein the antioxidant is selected from the group consisting of butylated (45%) octylated (19%) diphenylamine, octylated phenyl- α -naphthylamine, mono-, di-, and tri-nonylated diphenylamine, 3,5-di-t-butyl-4-hydroxy-hydrocinnamic acid C₇-C₉ branched alkyl ester, and butylated (30%) octylated

(24%) diphenylamine.

28. (Previously Presented) The method of claim 27 wherein the antioxidant is butylated (30%) octylated (24%) diphenylamine.

29. (New) The composition of claim 1 wherein the at least one antioxidant and the at least one biocide are present in amounts sufficient to reduce oxidative and biological degradation to a greater extent than if either were absent and if the other was present in an amount equal to the sum of the amount of the at least one antioxidant and the amount of the at least one biocide.

30. (New) The composition of claim 1, wherein the at least one antioxidant and the at least one biocide are present in a ratio of 1:1.

31. (New) The composition of claim 1, wherein the composition comprises 0.25 wt. % of the at least one antioxidant.

32. (New) The composition of claim 1, wherein the composition comprises 0.25 wt. % of the at least one biocide.

33. (New) The method of claim 12, wherein the at least one antioxidant and the at least one biocide are present in amounts sufficient to reduce oxidative and biological degradation to a greater extent than if either were absent and if the other was present in an amount equal to the sum of the amount of the at least one antioxidant and the amount of the at least one biocide.

34. (New) The method of claim 12, wherein the at least one antioxidant and the at least one biocide are present in a ratio of 1:1.

35. (New) The method of claim 12, wherein the composition comprises 0.25 wt. % of the

at least one antioxidant.

36. (New) The method of claim 12, wherein the composition comprises 0.25 wt. % of the at least one biocide.

37. (New) The method of claim 23, wherein the at least one antioxidant and the at least one biocide are present in amounts sufficient to reduce oxidative and biological degradation to a greater extent than if either were absent and if the other was present in an amount equal to the sum of the amount of the at least one antioxidant and the amount of the at least one biocide.

38. (New) The method of claim 23, wherein the at least one antioxidant and the at least one biocide are present in a ratio of 1:1.

39. (New) The method of claim 23, wherein the composition comprises 0.25 wt. % of the at least one antioxidant.

40. (New) The method of claim 23, wherein the composition comprises 0.25 wt. % of the at least one biocide.